

Title (en)

COHERENT LASER ARRAY CONTROL SYSTEM AND METHOD

Title (de)

KOHÄERENTES LASERARRAYSTEUERSYSTEM UND VERFAHREN

Title (fr)

SYSTÈME DE COMMANDE DE RÉSEAU LASER COHÉRENT ET PROCÉDÉ ASSOCIÉ

Publication

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Application

EP 13793407 A 20130514

Priority

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Abstract (en)

[origin: US2013315271A1] In one embodiment, a system includes a master oscillator for generating a primary laser signal. A plurality of amplifiers amplifies a plurality of secondary laser signals and generates a plurality of amplified laser signals. A plurality of actuators adjusts a position, a beam angle, a path length, and a phase of the plurality of amplified laser signals. At least one control module controls the plurality of actuators that adjust the position, the beam angle, the path length, and the phase of the plurality of amplified laser signals. A combiner receives the amplified laser signals to generate a combined laser output signal. At least one filter samples the combined laser output signal to generate a plurality of phase errors as feedback for the control module to control at least one of the position, the beam angle, or the path length for the plurality of amplified laser signals.

IPC 8 full level

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